

I claim:

- 1 1. A winding comprising:
 - 2 - at least two poles, and
 - 3 - at least one phase by which the poles are wound and which has at least two parallel
 - 4 paths,
 - 5 - wherein at least two of the paths differ from one another in the winding of at least
 - 6 one of the poles,
 - 7 - wherein at least one pole is wound by at least two paths,
 - 8 - wherein at least one of the paths is involved in the winding of at least two poles,
 - 9 and
 - 10 - wherein the poles are wound by the paths so as to produce an essentially
 - 11 symmetrical electric loading of the phase.
- 1 2. The winding according to Claim 1,
 - 2 - wherein the windings of the at least one pole which are assigned to the paths, differ
 - 3 from one another in respect of the turns counts.
- 1 3. The winding according to Claim 2,
 - 2 - wherein the sum of the turns counts of all the paths is essentially the same for each
 - 3 pole.
- 1 4. The winding according to Claim 2,
 - 2 - wherein at least one of the paths winds at least one of the poles more lightly than
 - 3 the remaining poles.

1 5. The winding according to Claim 4, further comprising:
2 - 2 x p poles forming p pole pairs, and
3 - p paths,
4 - wherein the windings of the poles by the paths differ from one another in that each
5 path is in each case more lightly involved in the winding of each pole pair than the
6 remaining paths.

1 6. The winding according to Claim 4, further comprising:
2 - 2 x p poles, and
3 - 2 x p paths,
4 - wherein the windings of the poles by the paths differ from one another in that each
5 path winds two adjacent poles more lightly than the remaining poles, each pole
6 being more lightly wound by two paths than by the remaining paths and a pole
7 adjacent to said pole being differently wound by the two paths.

1 7. The winding according to Claim 2,
2 - wherein at least one of the paths winds at least one of the poles more heavily than
3 the remaining poles.

1 8. The winding according to Claim 7, further comprising:
2 - 2 x p poles forming p pole pairs, and
3 - p paths,
4 - wherein the windings of the poles by the paths differ from one another in that each
5 path winds one pole pair more heavily than the remaining paths.

- 1 9. The winding according to Claim 7, further comprising:
2 - 2 x p poles, and
3 - 2 x p paths,
4 - wherein the windings of the poles by the paths differ from one another in that each
5 path winds two adjacent poles more heavily than the remaining poles, each pole
6 being more heavily wound by two paths than by the remaining paths and a pole
7 adjacent to said pole being differently wound by the two paths.
- 1 10. The winding according to Claim 1,
2 - wherein the winding of the at least one pole is formed by at least two slot coils, and
3 - wherein the windings of the at least one pole which are assigned to the paths, differ
4 from one another in respect of the turns counts of the slot coils of the pole.
- 1 11. The winding according to Claim 10,
2 - wherein the sum of the turns counts of all the paths is the same for each slot coil of
3 the pole of which there is at least one.
- 1 12. The winding according to Claim 10,
2 - wherein the turns counts of the paths are the same for the pole of which there is at
3 least one.
- 1 13. The winding according to Claim 10,
2 - wherein each path has at least two sub-sections,
3 - wherein each sub-section winds each pole with half a turn, and
4 - wherein each sub-section is involved to the extent of no more than half turn in the
5 winding of the same slot coil.

- 1 14. The winding according to Claim 11, further comprising:
2 - two paths,
3 - wherein each path has three sub-sections,
4 - wherein each pole is formed by two slot coils, and
5 - wherein each slot coil is wound by two sub-sections of one of the paths and by one
6 sub-section of another of the paths.

- 1 15. The winding according to Claim 11, further comprising:
2 - two paths,
3 - wherein each pole is formed by two slot coils, and
4 - wherein each path winds only one slot coil of each pole.

- 1 16. The winding according to Claim 1,
2 - wherein the poles are disposed evenly along a self-contained line.

- 1 17. The winding according to Claim 1,
2 - which is implemented as a rotating field winding.

- 1 18. The winding according to Claim 1,
2 - which has slots in which the paths are laid.

- 1 19. The winding according to Claim 18,
2 - which has a number of slots per pole per phase that is a positive integer.

- 1 20. A winding comprising:
- 2 - 2 x p poles forming p pole pairs, and
- 3 - at least one phase by which the poles are wound and which has p parallel paths,
- 4 - wherein at least two of the paths differ from one another in the winding of at least
- 5 one of the poles,
- 6 - wherein at least one pole is wound by at least two paths,
- 7 - wherein at least one of the paths is involved in the winding of at least two poles,
- 8 - wherein the poles are wound by the paths so as to produce an essentially
- 9 symmetrical electric loading of the phase,
- 10 - wherein the windings of the at least one pole which are assigned to the paths, differ
- 11 from one another in respect of the turns counts,
- 12 - wherein at least one of the paths winds at least one of the poles more lightly than
- 13 the remaining poles, and
- 14 - wherein the windings of the poles by the paths differ from one another in that each
- 15 path is in each case more lightly involved in the winding of each pole pair than the
- 16 remaining paths.